

Environmental Assessment of Disaster Events

Missouri Department of Health and
Senior Services

Office of Emergency Coordination

Caruthersville: 2006 Public Health Assessment

Aaron Winslow

Chief

Office of Emergency Coordination

Initial Stages

The Request: Scope and Process

- The Request: Received Tuesday, April 18
 - Identification of Public Health Nuisances resulting from damages of the April 2 tornado
 - From the Mayor of Caruthersville (Diane Sayre)
 - Through the State Emergency Management Agency, (Steve Moody, Director of Operations)
 - Through the Department Situation Room
 - To Division of Community Public Health
 - To Office of Emergency Coordination

Initial Stages

- The Response
 - Gained Division Approval
 - Consideration of process
 - » Contacted Mayor
 - “What can you do for me”

The Plan is Developed

- Laid out broad overview of response
 - » Coordinate with City Attorney and Code Enforcement Officer
 - » Send in teams to assess properties
 - » Compile report; which would provide
 - GPS i.d. of each property (with maps)
 - Photographs to document nuisances
 - Written report

The Response

■ Set ground rules

- Will not place teams in danger
 - » Back away from confrontation
 - » Have police protection
 - » Not enter damaged properties
- City would make final decisions on condemnation, etc.

■ Obtained information

- Size and scope of task ahead
- Number of homes, conditions, etc.

The Response:

Resource Gathering/Coordination

- Daryel Brock, Chief, Environmental Regulation Unit, Division of Regulation and Licensure
 - » Aided in determining staffing needs
 - » Sounding board for concepts and procedures
- Brad Hall, Harvey Marx, Gale Carlson provided support
- Gary Gill, Pemiscot County Health Center Administrator
 - » EPHS staff time

Resource Gathering/Coordination (cont)

- Bruce Clements, Director of CERT
 - » Agreed to deploy the Mobile Command Center
 - » CERT staff assisted with deployment and GIS work
- Paula Peters, ITSD; Debbie Briedwell, ITSD
 - » Agreed to providing GIS response
 - » Resources (walkie-talkies, GPS units, cameras, computers, vests, etc.)
- Alan Reinkemeyer, Chief of Environmental Emergency Response Unit, Department of Natural Resources
 - » Agreed to coordinate concerning household hazardous waste
 - » Provided contact point, notification, to SE Region EER staff
- Anna Long, Senior Office Support Assistant, OEC
 - » Travel Arrangement, Lodging

Form Development

- Needed a consistent way of gathering information/ documenting the nuisances
 - Did not want to confuse the condemnation matter
- No ready form available
- Roughed out ideas
- GIS Unit developed form and database

Final Assignments, Coordination, Deployment

- Contact with City
 - Shared form and plan
 - Arranged time for coordination meeting
 - » 1:00 pm, Monday April 24
- Assigned Team Leader
 - Dennis Weltig
- Dennis finalized deployment details

Lessons Learned

- Federal Reimbursement Process
 - Overtime pre-approval
 - Establishment of tracking code
- Viewed GIS as a delighter
 - Integral part of response

Public Health Assessment Survey

Caruthersville, MO

April 24-26, 2006



MDHSS Mobile Command Center



MCC Deployment

- Team met at 0530 24 April 2006
- Pulled away from DHSS at 0600
- Pulled away from Lowe's parking lot at 0700
- MCC and 2 chase vehicles with radio communication
- 3rd vehicle left at 0800
- Rendezvous with 3 team members traveling separately at 1400 in Caruthersville

TEAM MEMEBRS

■ Assessment Teams

Eric Hueste (MCC
Driver)

Harry Ballard

Randy Maley

Dennis Weltig

Ann Elledge

John Alls (Local
EPHS)

■ IT and GIS crew

Joe Weidinger

Debbie Briedwell

Bruce Ziebarth

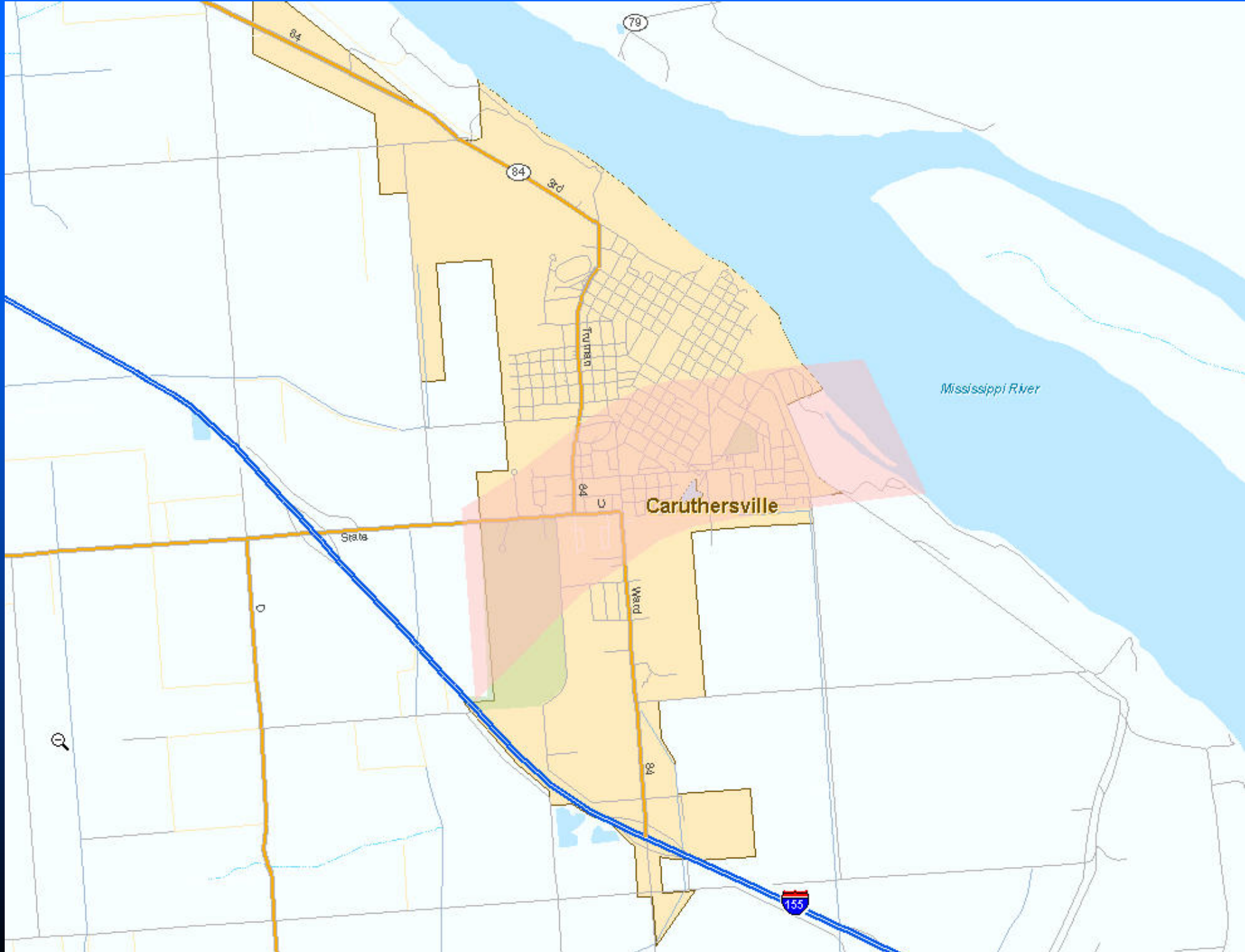
About Caruthersville

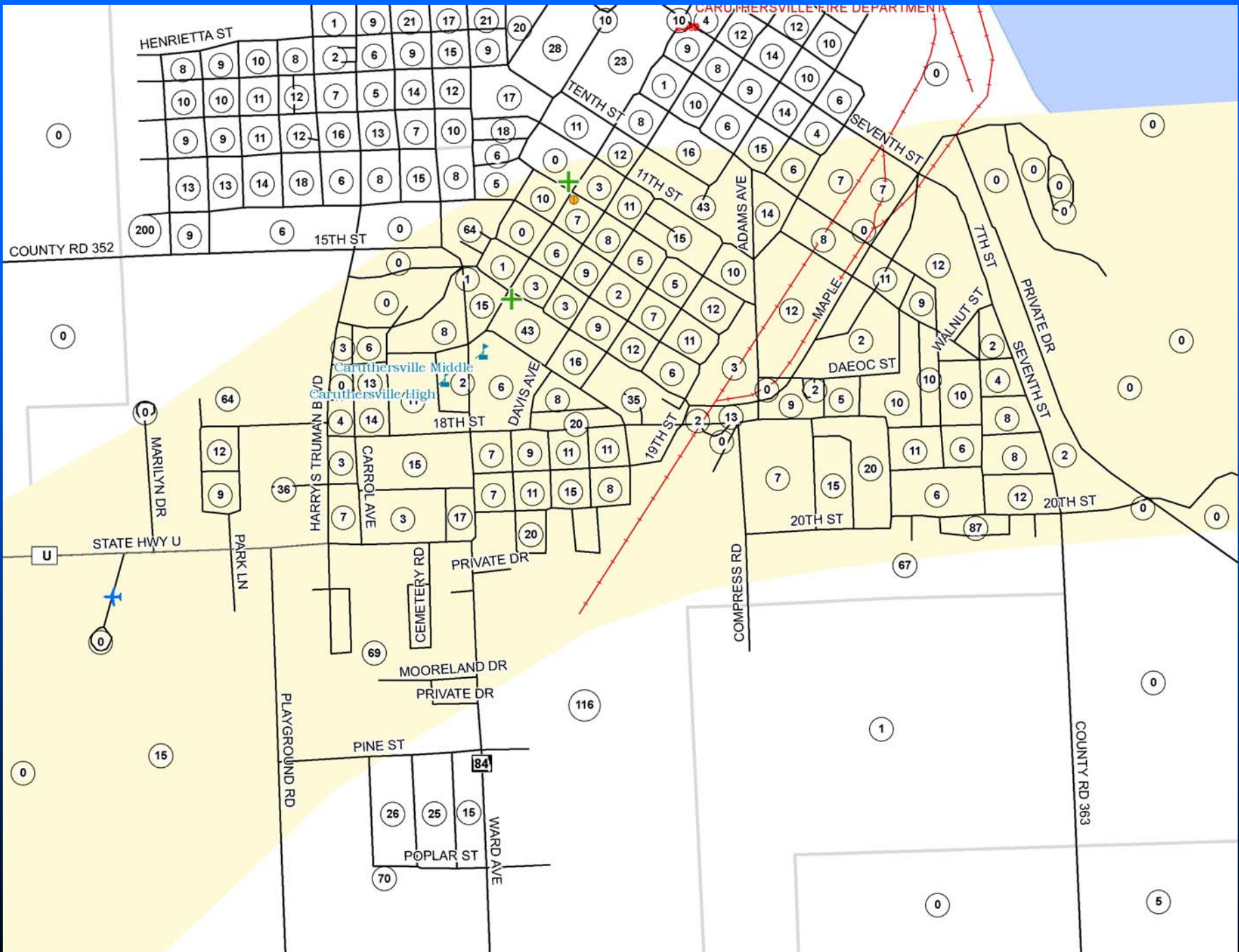
- 2000 population – 6,760
- 49% of town rental housing
- 36% individuals below poverty level
- 17% households with no vehicles available
- 12% households with no telephone service
- \$45,000 median value of homes

2000 Census Data

Briefing with City Council

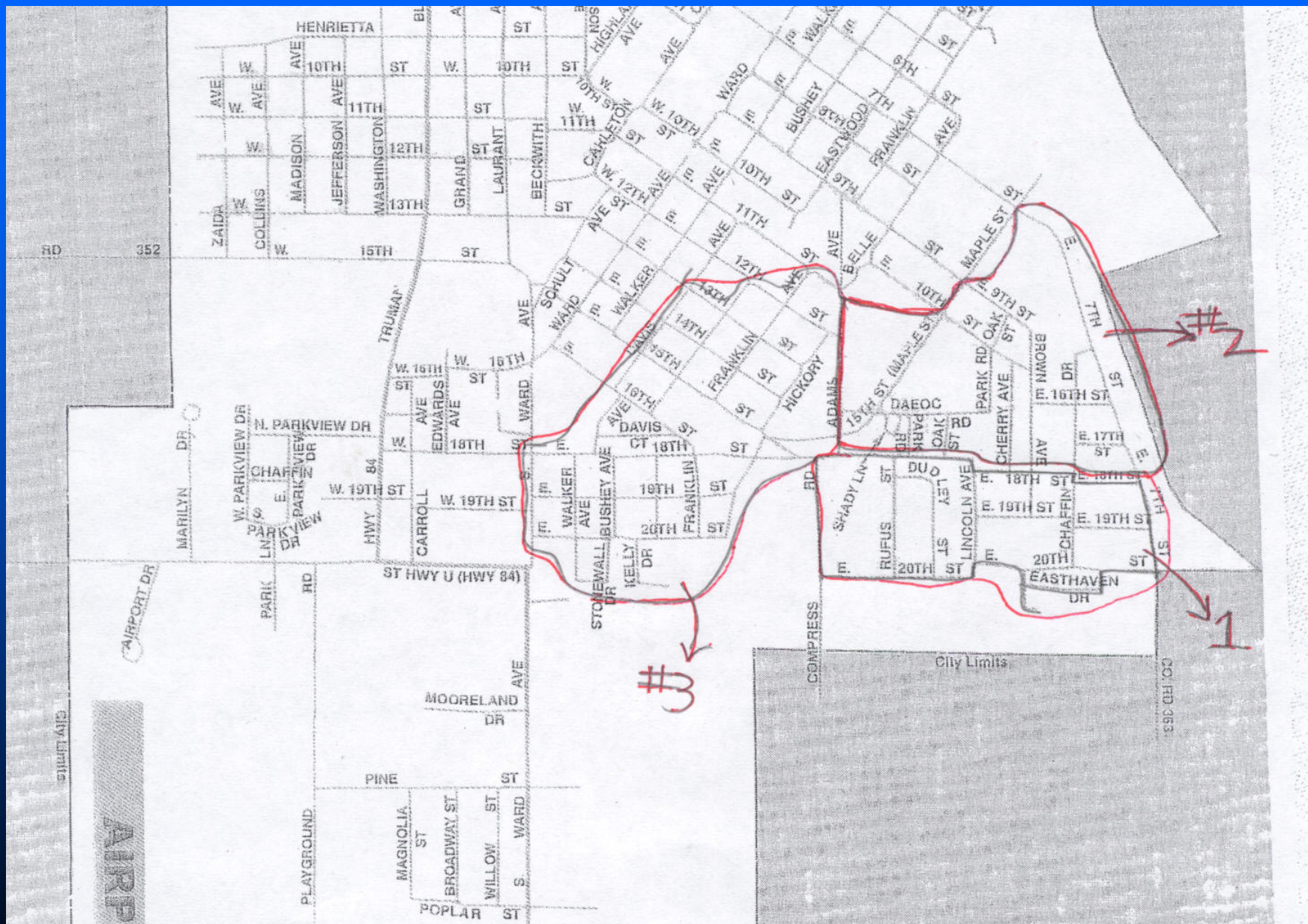
- F3 tornado hit city on April 2nd
- Most of the southern portion of city was damaged
- Many properties have had no clean-up
- Some homes damaged were rental property with owners living out of town.
- City needed public health nuisances identified to enforce debris removal code.
- Houses had been previously marked with placards
 - Red: unsafe
 - Yellow: minor
 - Green: OK





DHSS Team

- 3 teams with two people on each
- Concentrate on area east of Ward Rd.
- Assess all red placard sites
- Assess green and yellow as needed
- Photograph any nuisances observed
- GPS site location
- IT support in MCC



Location: City of Caruthersville Date: Time: Inspected by:
Property ID: GPS Location:
Property Address (if known):
Owner of Property (if known):
Property currently occupied? ☐ Yes ☐ No ☐ Unknown

☐ Yes ☐ No

☐ Furniture
☐ Appliance
☐ Vehicle
☐ Garbage
☐ Dead Animal
☐ Solid Waste Debris
☐ Other

☐ Mosquitoes
☐ Mice
☐ Flies
☐ Cockroaches
☐ Rats
☐ Other

☐ None

☐ Batteries ☐ Paints ☐ Cleaners ☐ Pesticides/Herbicides ☐ Other

Observations/Comments:

Photographs - Write the number and a brief description for each photo taken: (continue on other sheet if needed) :

This image shows a single sheet of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.[illegible]



117 Red Placards

UNSAFE

DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected, found to
be seriously damaged and is unsafe to
occupy, as described below:

House LEANING
OFF FOUNDATION

Do not enter, except as specifically
authorized in writing by jurisdiction.
Entry may result in death or injury.

Facility Name and Address:

333-2142

Date 4-06-06

Time 4:20 PM

This facility was inspected under
emergency conditions for:
CITY OF C'VILLE
(Jurisdiction)

Inspector ID / Agency

520118

Do Not Remove, Alter, or Cover this Placard
until Authorized by Governing Authority

2006/ 4/24

TEAM

B

LOCATION #

08



Public Health Nuisance/Hazards Assessment Form

Location: City of Caruthersville Date: 24 Apr Time: 1655 Inspected by: DW/RM
 Property ID: B09 GPS Location: N 36.18019 W 89.64809
 Property Address (if known): 16xx Chaffin
 Owner of Property (if known): _____
 Property currently occupied? ☐ Yes ☒ No ☐ Unknown

Accumulation of decaying animal or vegetable matter, and/or human feces, trash, rubbish, garbage, packing materials, tires, or any other substances which could attract or harbor flies, mosquitoes, or other disease carrying insects, rodents, or other vermin present on site?

☐ Yes ☐ No

If Yes, complete the following section: (Check all that apply)

Type of matter observed:

- ☒ Furniture
- ☐ Appliance
- ☐ Vehicle
- ☐ Garbage
- ☐ Dead Animal
- ☒ Solid Waste Debris
- ☐ Other fire

Quantity Found: _____

Vermin or insects observed at site:

- ☐ Mosquitoes
- ☐ Mice
- ☐ Flies
- ☐ Cockroaches
- ☐ Rats
- ☐ Other _____

☐ None

Household hazardous wastes noted on site? ☒ Yes ☐ No

If yes, kinds found:

- ☐ Batteries ☒ Paints ☐ Cleaners ☐ Pesticides/Herbicides ☒ Other Anti freeze

Quantity found: _____

Observations/Comments: No placards.

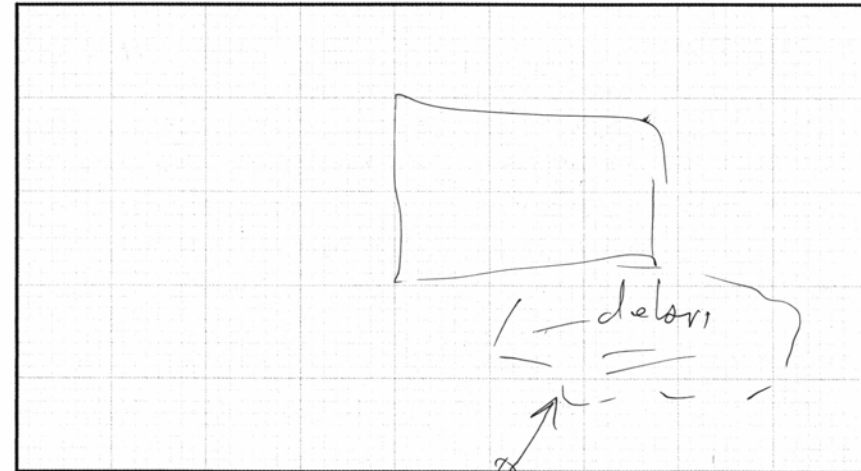
some house hold hazard old tubs, buckets, milk crates
structural delays

☐ Entered into Database Date _____ By _____

Photographs - Write the number and a brief description for each photo taken: (continue on other sheet if needed):

1 pile of debris in front
2 Anti freeze
3 Paint cans
4 Tire

Sketch of Property (show location of each picture taken):





516

2006/ 4/24







2006/ 4/25





2006/ 4/26



2006 / 4 / 26

Harborage and Attraction to Vermin

- Food
- Old Furniture
- Piles of debris





2006/ 4/26



2006/4/26



Vehicles

- Abandoned
- Damaged





Household Hazardous Waste

- Batteries
- Solvents/Cleaners
- Oil and lubricants
- Electric Transformers
- Other Suspicious Materials





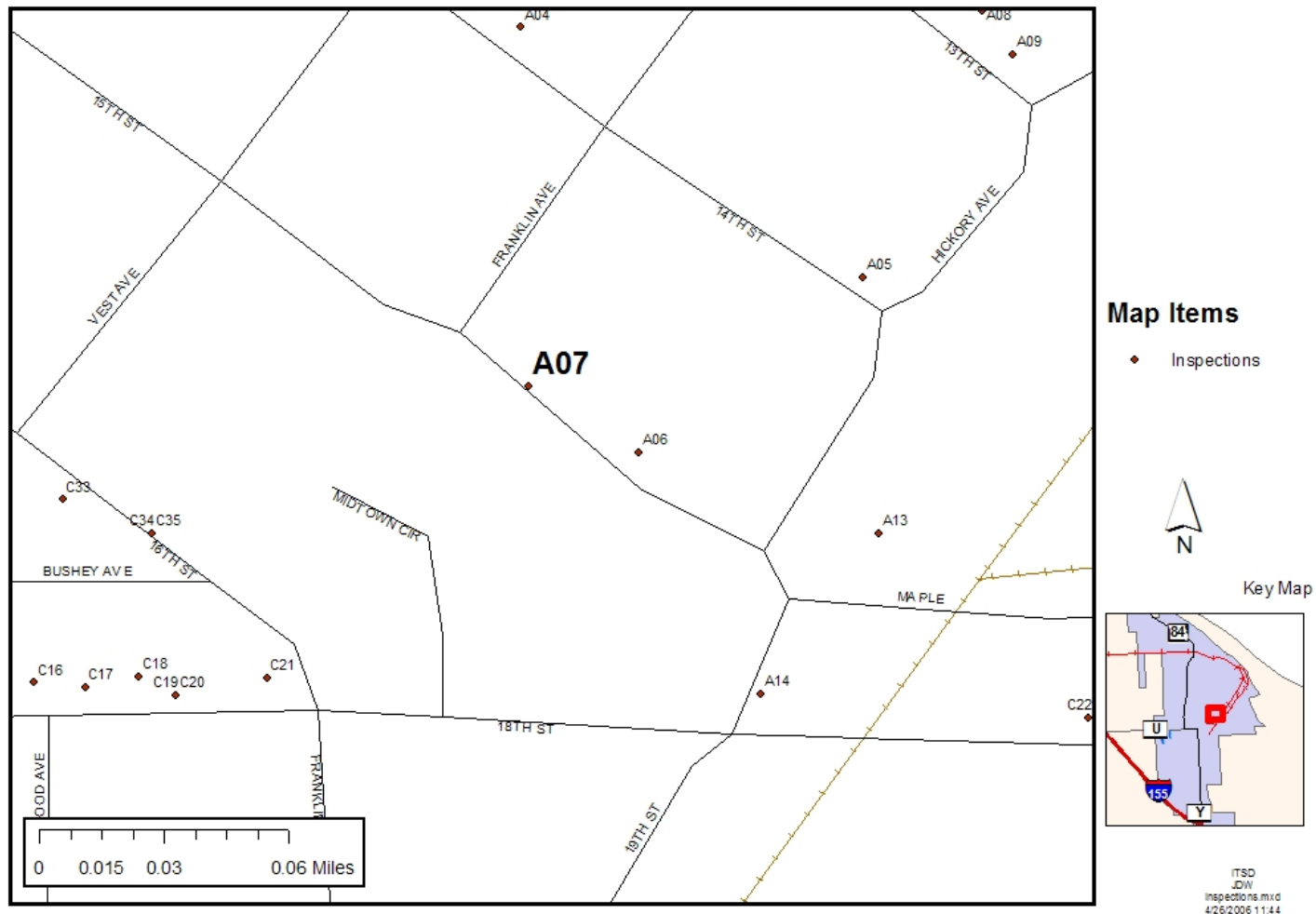




One site found possible hazardous materials



Caruthersville - A07 - Potentially Hazardous Site



Map of site given to Mayor



2006/ 4/25



2006/4/25

Vacant Lot Assessments

- Debris from other locations Scattered across open areas











Good Intentions

- Sense of Humor



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ILL
BE
Back!

I've
Always
Wanted a
SUNROOF





04.26.2006



04.26.2006

Global Positioning System

- Noted each site based on GPS reading
- Position was accurate to about 7 meters
- Able to track where assessments were completed
- Showed any missed areas





619-5961)

573-619-7128)

3-714-1501)

A01SK.tif

A0101.jpg

↑
from fig photo

04.25.2006

ID

Location Information

Location Date
 Inspected By Time

GPS

X: E Y: N METHOD:

Note: Enter location in decimal degrees. X location should be between range of -89.0000 and -95.0000.
 Y location should be between range of 36.0000 and 41.0000.

Property Information

Occupied
 Owner's Name:
 Street Address
 City Zip Code

Hazards

Were hazards found?:

- ☒ Furniture Other:
- ☒ Appliance
- ☒ Vehicle
- ☐ Garbage
- ☐ Dead_Animal
- ☒ Solid Waste

Quantity Found:

Vermin or Insects

- ☐ Mosquitoes Other:
- ☐ Mice
- ☐ Flies
- ☐ Cockroaches
- ☐ Rats
- ☐ None

Household Hazardous Materials

Household Wastes?:
☐ Batteries Other: Quantity
☐ Paints
☐ Cleaners
☐ Pesticides

Observations/Comments

No structure. Old vehicle, furniture, mattresses, regrid.

Database Entry

By:
 Date
 Time





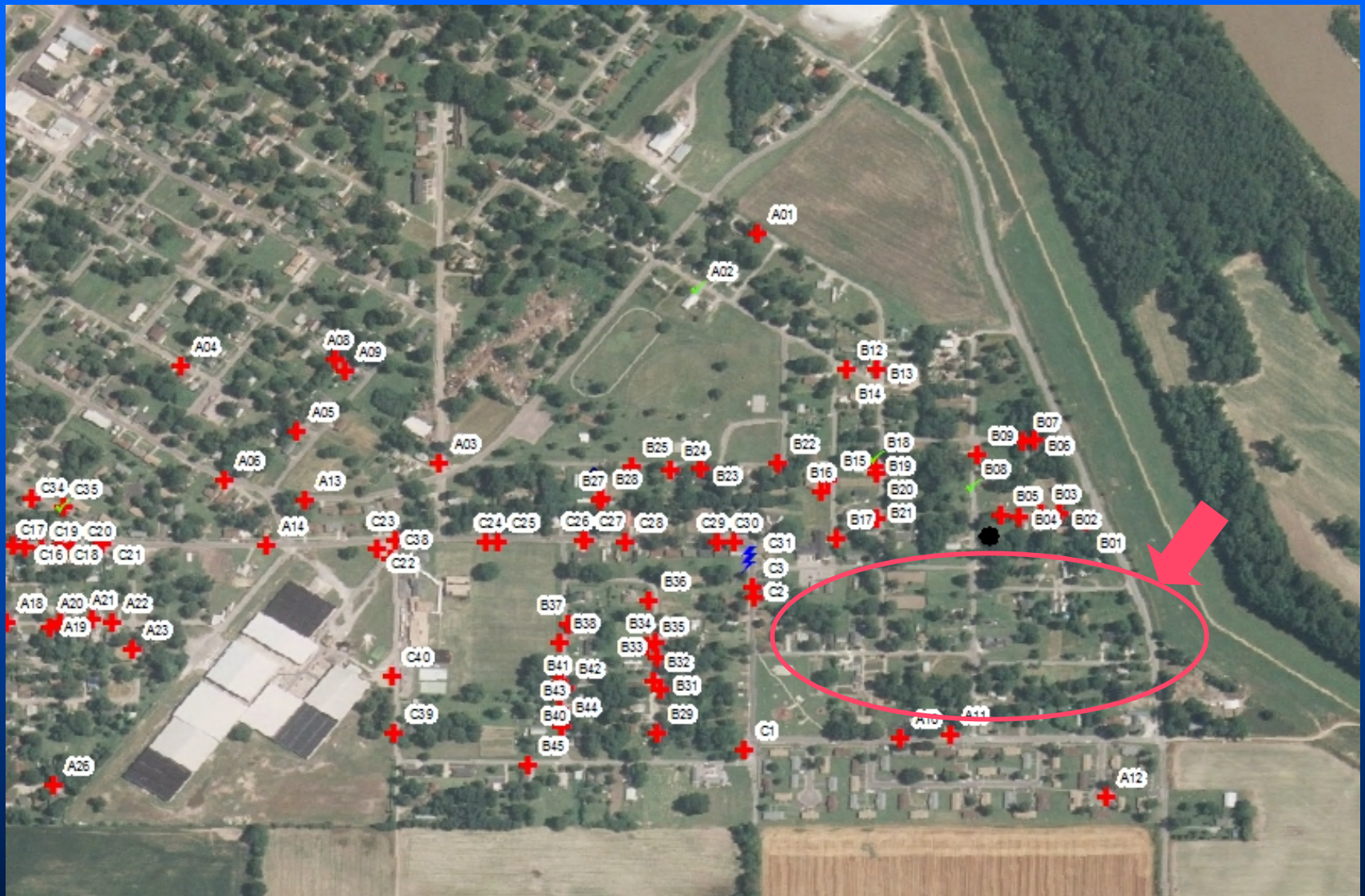
- (A) ERIC + HARRY (573-619-5961)
- (B) DENNIS + RANDY (573-619-7128)
- (C) ANN + JOHN (573-714-1501)

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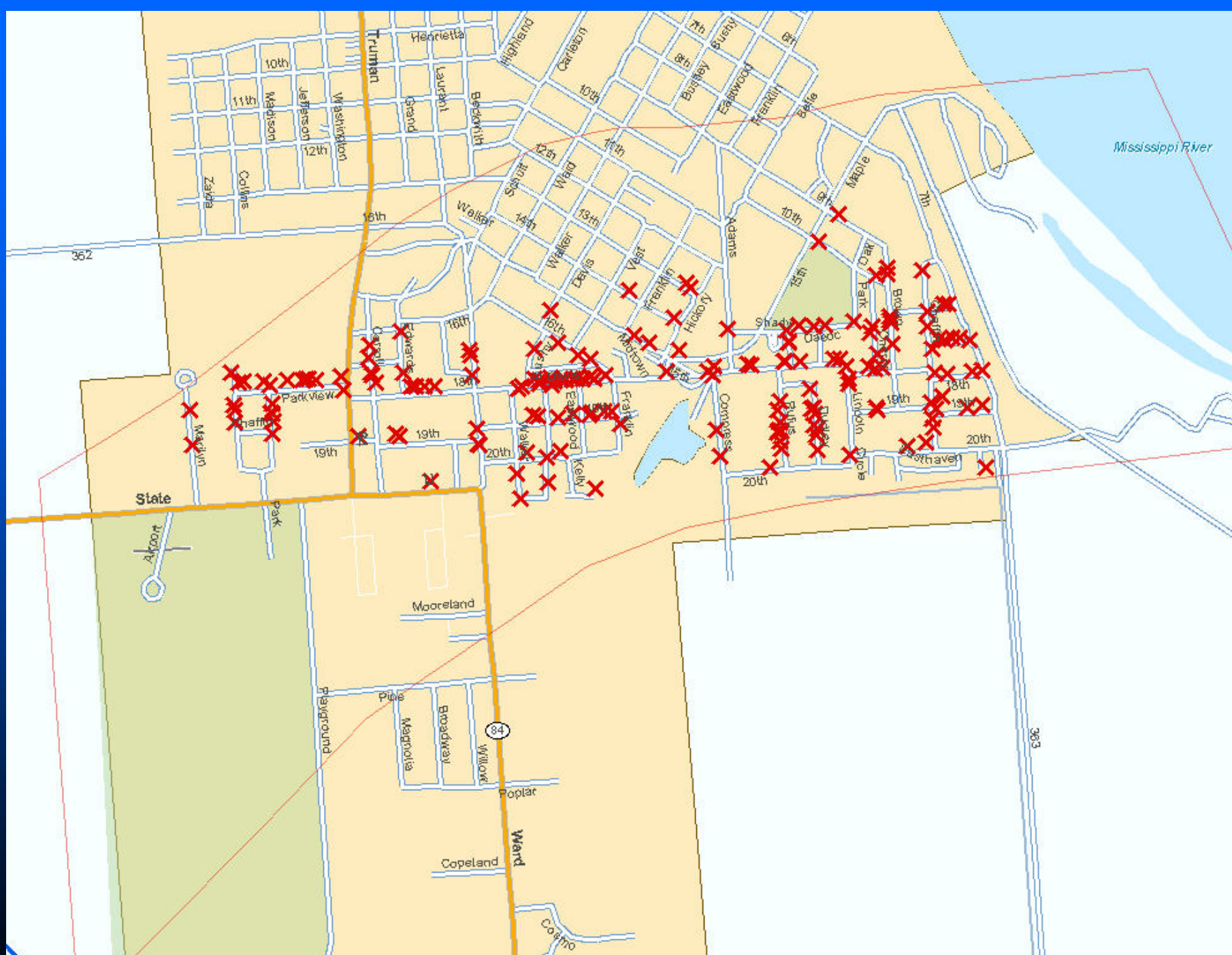
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Gaps found and inventoried



Summary

- 174 sites inventoried.
- 170 had public health nuisance observed.
- 4 had no observed hazards
- Entire area had some level of hazard due to:
 - Scattering of debris
 - Roofless weakened homes exposed to weather
 - Decaying food and exposed household chemicals
- Mayor requested individual report of each site.

Final Database

- A map of each site was created and linked.
- Each inventory form was scanned and linked.



ID A01

Location Information

Location City of Caruthersville Date 4/24/2006

Inspected By Eric Hueste Time

GPS

X: E -89.65092 Y: N 36.18304 METHOD: GPS

Note: Enter location in decimal degrees. X location should be between range of -89.0000 and -95.0000.
Y location should be between range of 36.0000 and 41.0000.

Property Information

Occupied No

Street Address 808 9th

Owner's Name:

City Caruthersville

Zip Code 63830-

Next Record Find Record Previous Record Close Database

View this form, all pictures, sketches and location map

Print form, pictures, sketches and location map

Hazards

Were hazards found? Yes

☐ Furniture Other:☐ Appliance Waste Tire☐ Vehicle☒ Garbage☐ Dead_Animal☐ Solid Waste

Quantity Found:

Vermin or Insects

☐ Mosquitoes Other:☐ Mice☐ Flies☐ Cockroaches☐ Rats☐ None

Household Hazardous Materials

Household Wastes?: No

☐ Batteries Other:☐ Paints☐ Cleaners☐ Pesticides

Quantity

Observations/Comments

Tires on roof, brush in front of property

Database Entry

By: Joseph Weir

Date

Time 4/25/2006 9:13:10 AM



Public Health Nuisance/Hazards Assessment Form

Location: City of Caruthersville Date: 4/24 Time: 5:45 PM Inspected by: EH, HB
Property ID: A4 GPS Location: N 36.19133, W 089.65839
Property Address (if known): 406 14th
Owner of Property (if known): _____
Property currently occupied? ☐ Yes ☒ No ☐ Unknown

Accumulation of decaying animal or vegetable matter, and/or human feces, trash, rubbish, garbage, packing materials, fires, or any other substances which could attract or harbor flies, mosquitoes, or other disease carrying insects, rodents, or other vermin present on site?

☒ Yes ☐ No

If Yes, complete the following section: (Check all that apply)

Type of matter observed:

- ☐ Furniture
☐ Appliance
☐ Vehicle
☐ Garbage
☐ Dead Animal
☐ Solid Waste Debris
☒ Other TREE DEBRIS - REAR
ROOF

Quantity Found: 2 -

Vermin or insects observed at site:

- ☐ Mosquitoes
☐ Mice
☐ Flies
☐ Cockroaches
☐ Rats
☒ Other BEEES + WASPS
☐ None

Household hazardous wastes noted on site? ☒ Yes ☐ No

If yes, kinds found:

- ☐ Batteries ☐ Paints ☐ Cleaners ☐ Pesticides/Herbicides ☐ Other _____

Quantity found: _____

Observations/Comments: NO OTHER OBSERVATIONS AT TIME
OF INSPECTION

☒ Entered into Database Date 4/25/06 By JW

QUESTIONS